

INTRODUCTION TO SYSTEM

1.1 Project Title:

Online Hotel Reservation System.

1.2 Introduction :

The project “Online Hotel Reservation System” is a system based on accessing the internet to book for rooms in a hotel.

The purpose of this study is to develop and implement an online hotel reservation system for hotels, that will replace the manual method of booking for hotel rooms.

The previous system for booking rooms were faced with so many problems like, delay in processing the customer booking or paying for rooms that is below or beyond his standard, causes difficulty for emergency booking.

The use of online view of room rates and uploading of available rooms and facilities was used for the new system so that the customer can view and make his choice before arrival, and also in the case of emergency travelling.

This new system assisted the hotel owners in managing their hotels, because they can also regulate the receptionist moves and avoid fraudulent activities. It also increased the efficiency of the hotel managers and also their profit margin, once they have a better and good facilities.

1.3 Source of information :

To develop this web application we referred documentation of remaining presented system and their scenarios.

- 1) Refer the demo of present system.
- 2) Refers Website: www.Booking.com

1.4 Hardware and software requirements :

SOFTWARE:

OPERATING SYSTEM: Microsoft Windows 10

FRONT END: Asp.net, Html, CSS, C#

BACK END: SQL Server

HARDWARE:

PROCESSOR: Intel Core i3

RAM: 4GB

HARD DISK: 1TB

1.5 Feature of Front End & Back End :

HTML:

HypertextMark-up Language , a standardized system for tagging text files to achieve font, colour ,graphic ,and hyperlink effects on World Wide Web pages.

FEATURES OF HTML :

1. HTML is mark-up language.
2. HTML is powerful language for formatting web pages.
3. HTML can supported by multiple platform like PC, Mobiles.
4. HTML is not case sensitive.
5. HTML is platform independent language.

CSS:

Cascading style sheet is a style sheet language used for describing the presentation of document written in markup language like HTML.

FEATURES OF CSS:

1. time requesting Reduce for developing & maintaining html document.
2. Greater accessibility.

3. Faster download time

ASP.NET:

Asp.net is an open-source server-side web Application framework designed development to produce dynamic web pages developed by Microsoft to allow programmers to build dynamic web sites, applications and services.

FEATURES OF ASP.NET:

1. ASP.NET is easy to compile.
2. ASP.NET provides high performance.
3. ASP.NET is Cross platform and Self hosted apps used apps language.
4. ASP.NET have strongly type data controls.
5. ASP.NET is secure language.

C#:

C# is a general-purpose, multi-paradigm programming language encompassing strong typing, lexically scoped, imperative, declarative, functional, generic, object-oriented, and component-oriented programming disciplines.

FEATURES OF C#

1. Simple:

- Pointer is missing in C#.
- In C# there is no usage of “::” or “->” operators.
- Varying ranges of the primitive types like Integer, Floats etc.

2. Modern:

- C# has been based according to the current trend and is very powerful and simple for building interoperable, scable, robust application.

3. Simple:

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4. Modern:

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BACK END:

SQL:

SQL is a domain-specific language used in programming and designed for managing data held in a relational database management system, or for stream processing in a relational data stream management system.

FEATURES OF SQL

1. SQL is easy to learn.
2. SQL is used to access data from relational database management systems.
3. SQL can execute queries against the database.
4. SQL is used to describe the data.
5. SQL is used to define the data in the database and manipulate it when needed.

SYSTEM ANALYSIS

2.1 MANUAL WORKING

More documentation is required for maintaining the information related to hotel system.

It is more time consuming process to find out any previous history.

In previous it is confusable for user to select the room as per their choice.

2.2 NEED OF COMPUTERIZATION

Accuracy:

Measure the total project & its all status in one click more accurately.

Speed:

Work speed is increased because of this online web based software application.

Time Management:

Every assigned work completed in within time & submitted to admin time-to-time.

Large Amount of Data Handling:

Customer & admin can store large amount of data handle and take secure using this application.

Reduce Man-power:

Every work is measured in one click so no extra efforts to user and reduce user work.

2.3 PROPOSED SYSTEM

Our system is a web based application that provide customer a platform where customers can book a hotel room from any where any time.

- System can be web-based so that everyone can easily interact with system.
- System can provide optimize functionality.
- System can be customizable so that one can update it.
- System can be flexible enough so that it can incorporate different changes time to time.
- The most important thing is security. All the data should remain consistent and secure.

2.4 OBJECTIVE OF PROPOSED SYSTEM

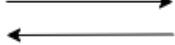
- To fulfil the need of having system that accommodate hotel reservation.
- To provide fast and accurate services to clients.
- To store large amount of data with less space and less time.
- To provide user friendly environment.
- There is no loss of data.
- Operation on data can be done quickly as per requirements.

2.5 SCOPE OF PROPOSED SYSTEM

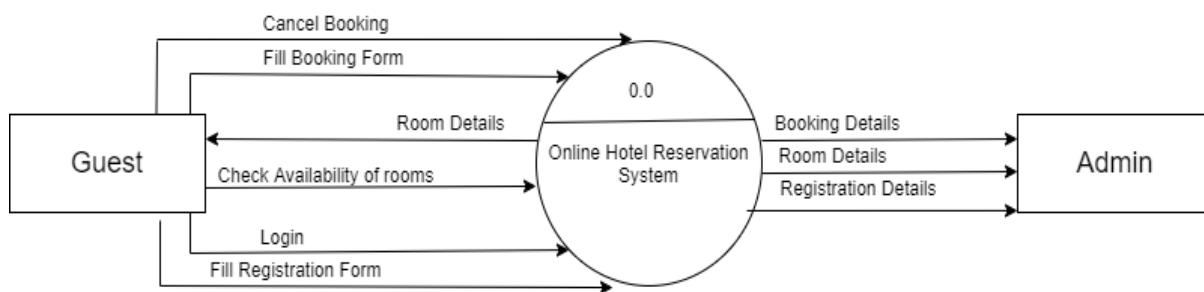
We are just provide a facility to customer to book a rooms as per their requirements.and now this system is useful for only admin and customer,so in future we add one more module that is receptionist.

SYSTEM DESIGN

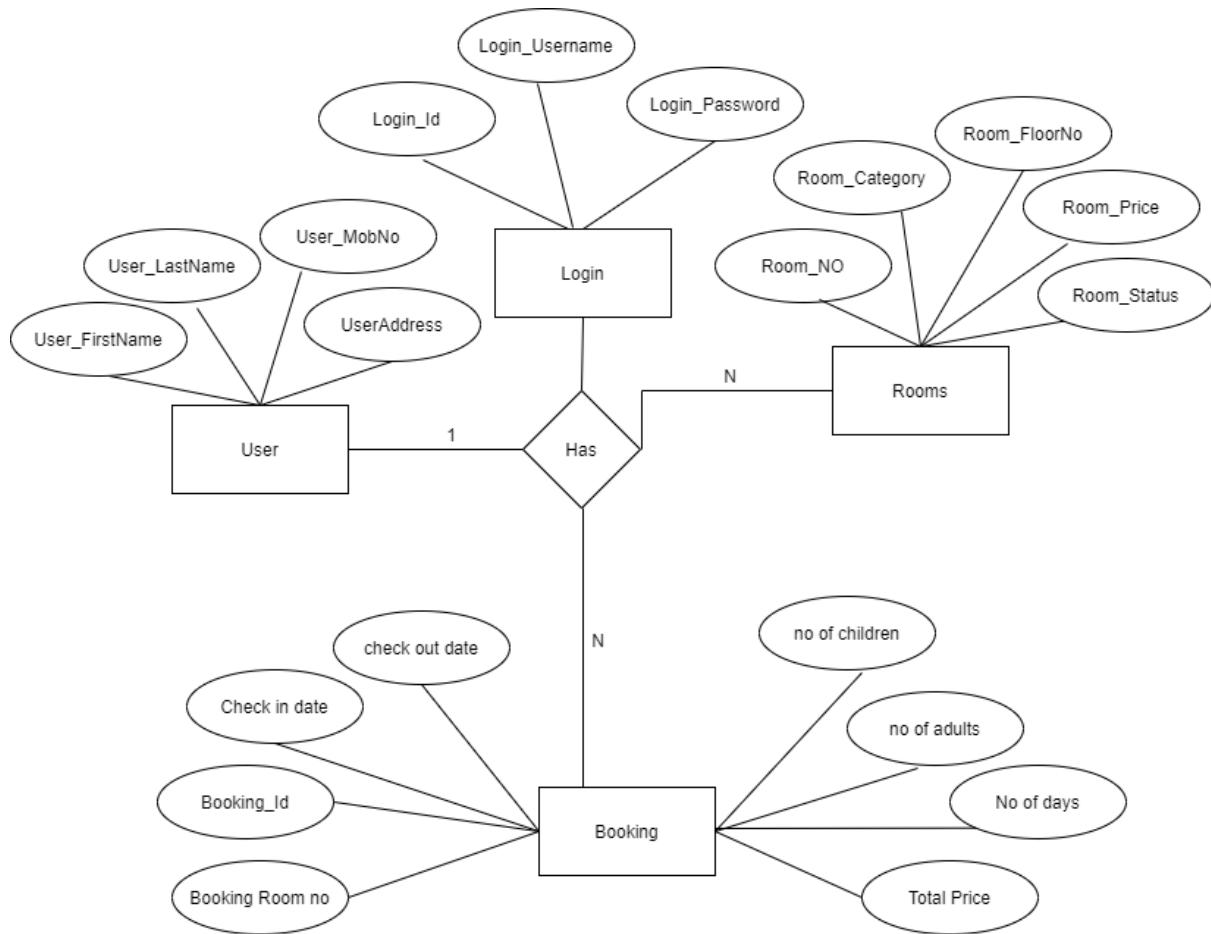
3.1 Entity Symbols

Entity Symbols	Entity Name
	Entity
	Repeated Entity
	Process
	Flow Lines

3.2 Context Level Diagram (0th Level DFD)

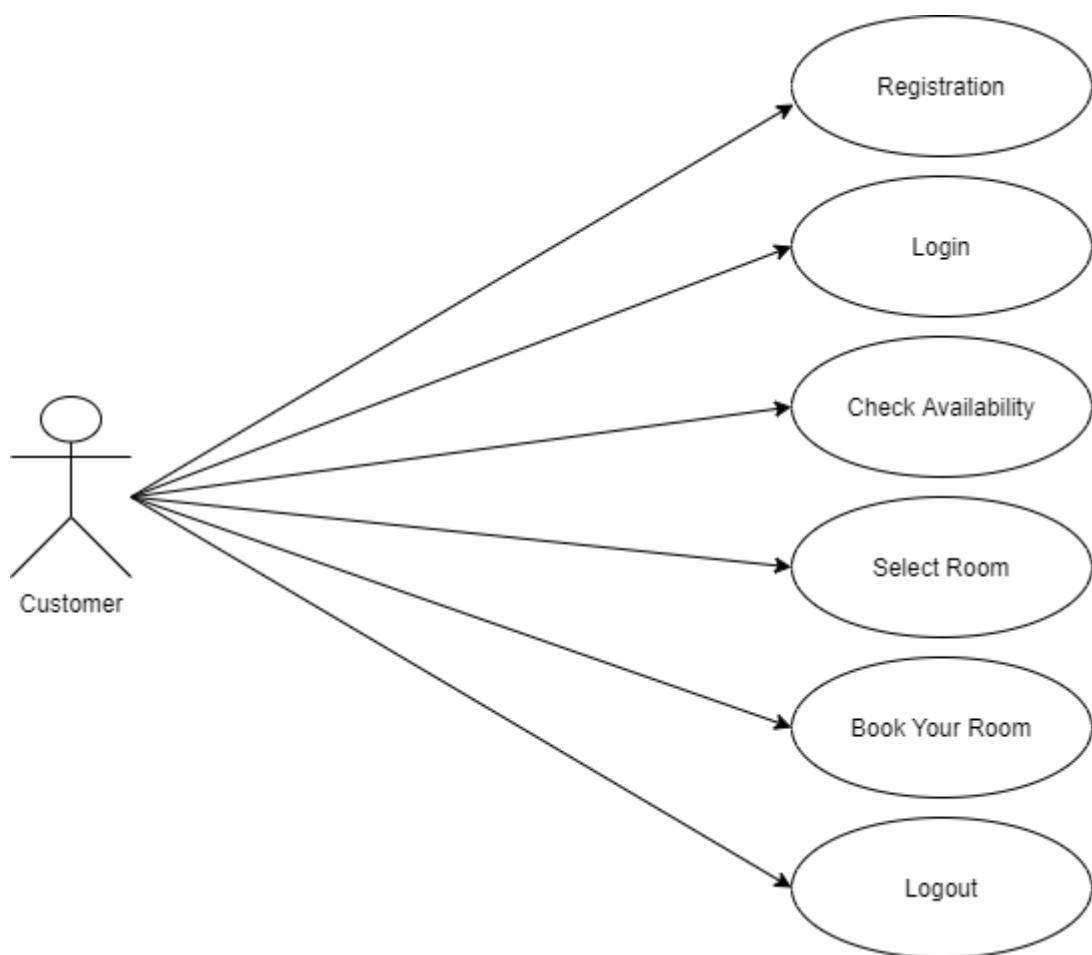


3.3 Entity Relationship Diagram(ERD)

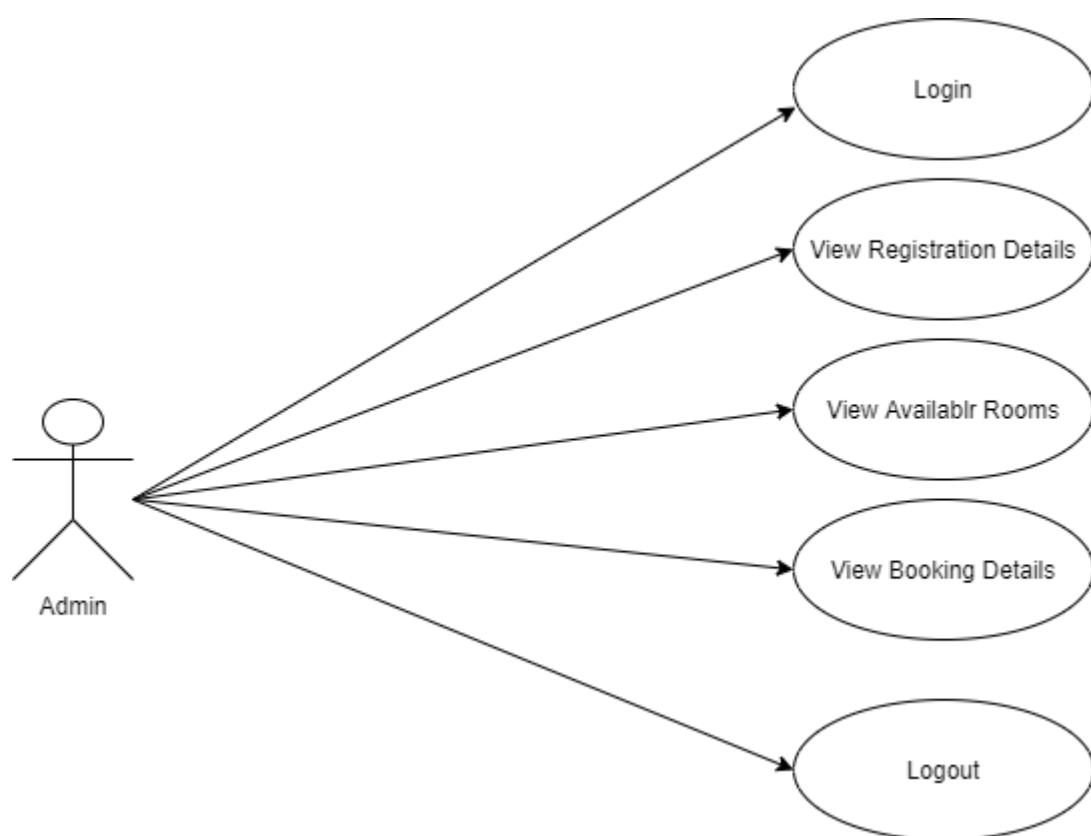


3.4 Use Case Diagram:

(i) Use Case for Customer:

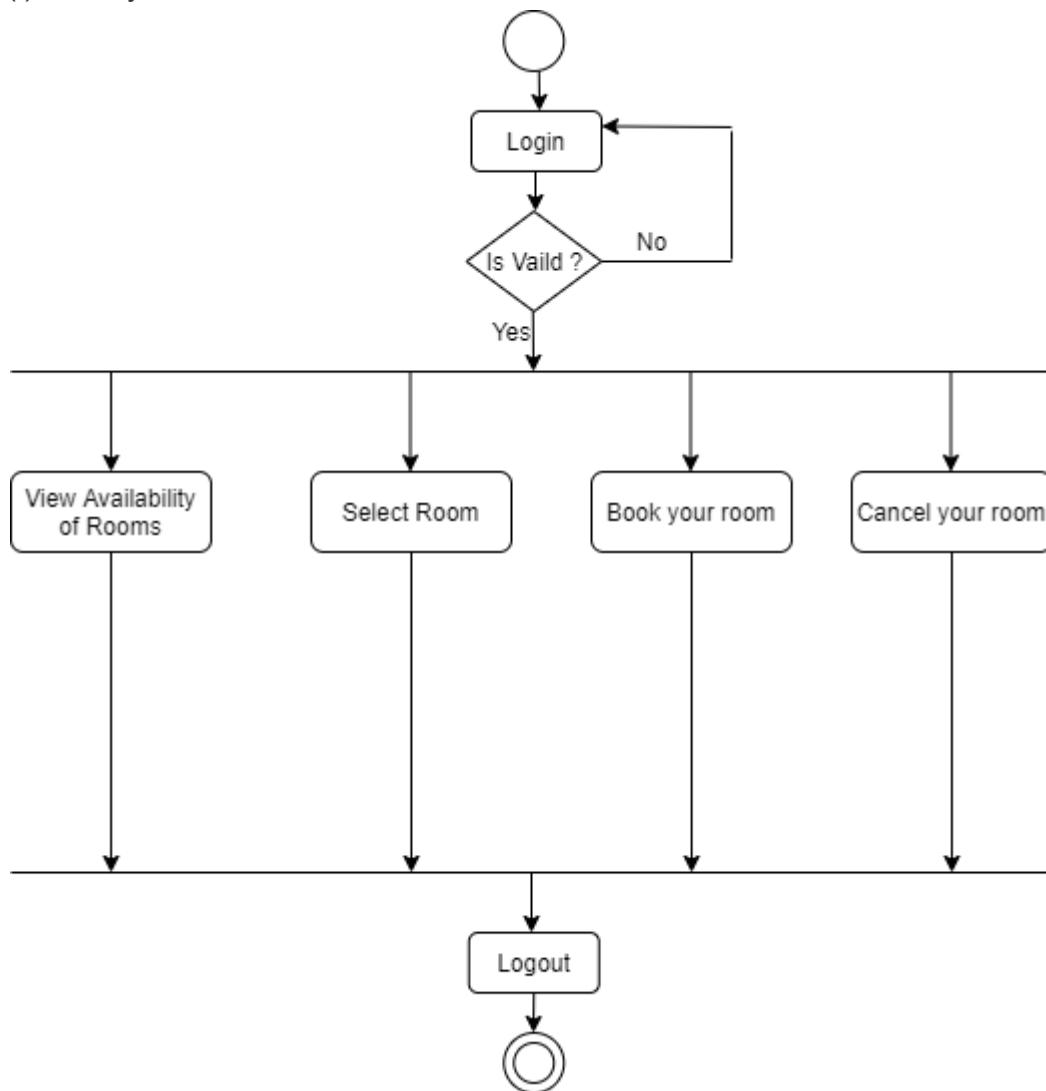


(ii) Use Case for Admin:

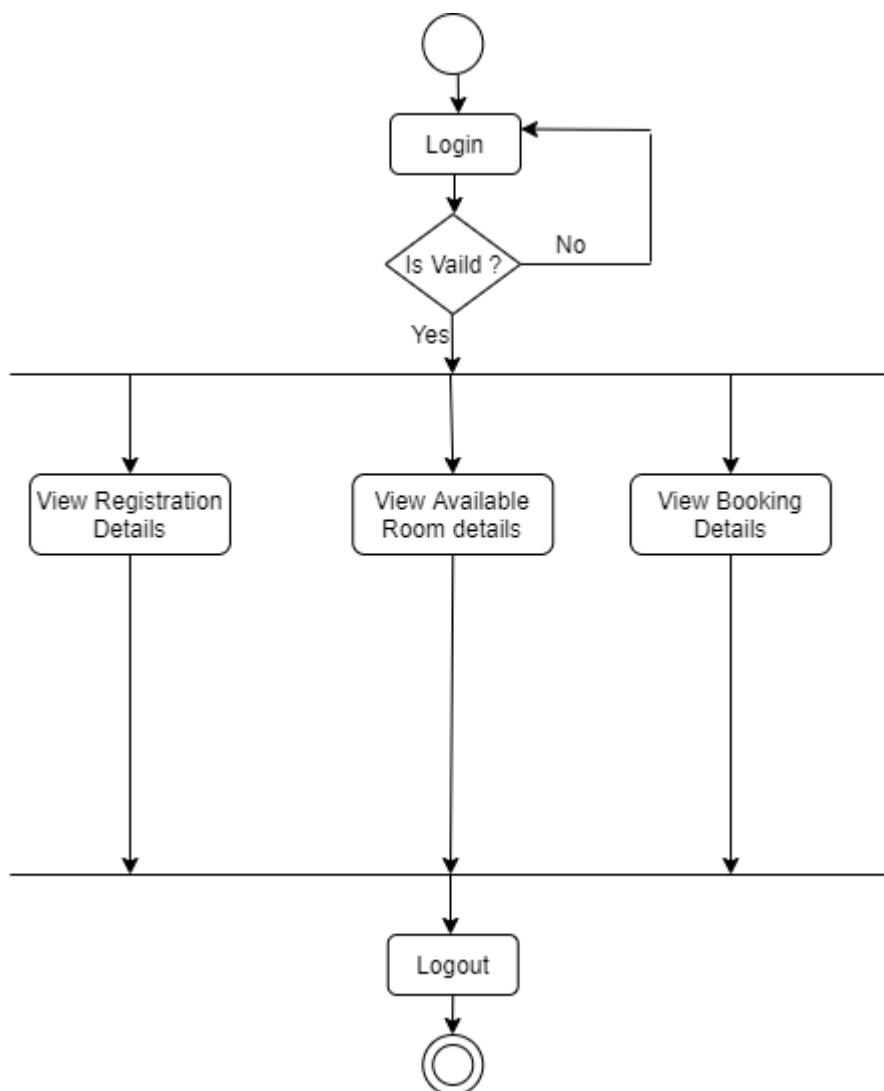


3.5 Activity Diagram:

(i) Activity for Customer:

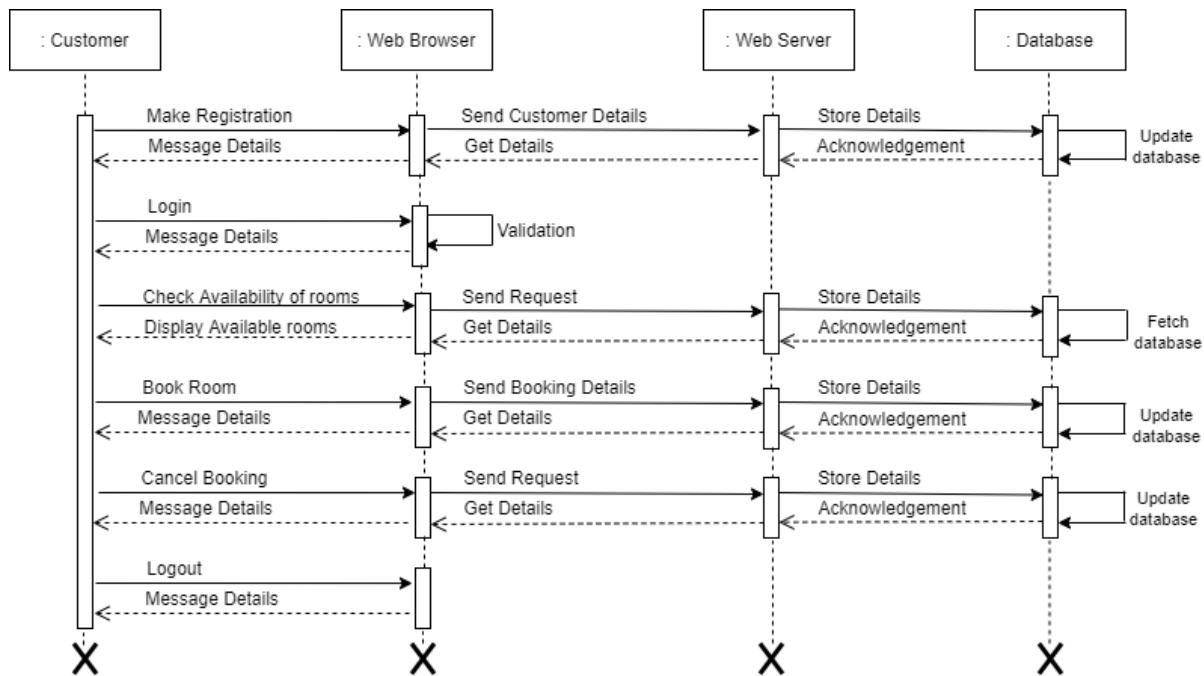


(ii) Activity for Admin:

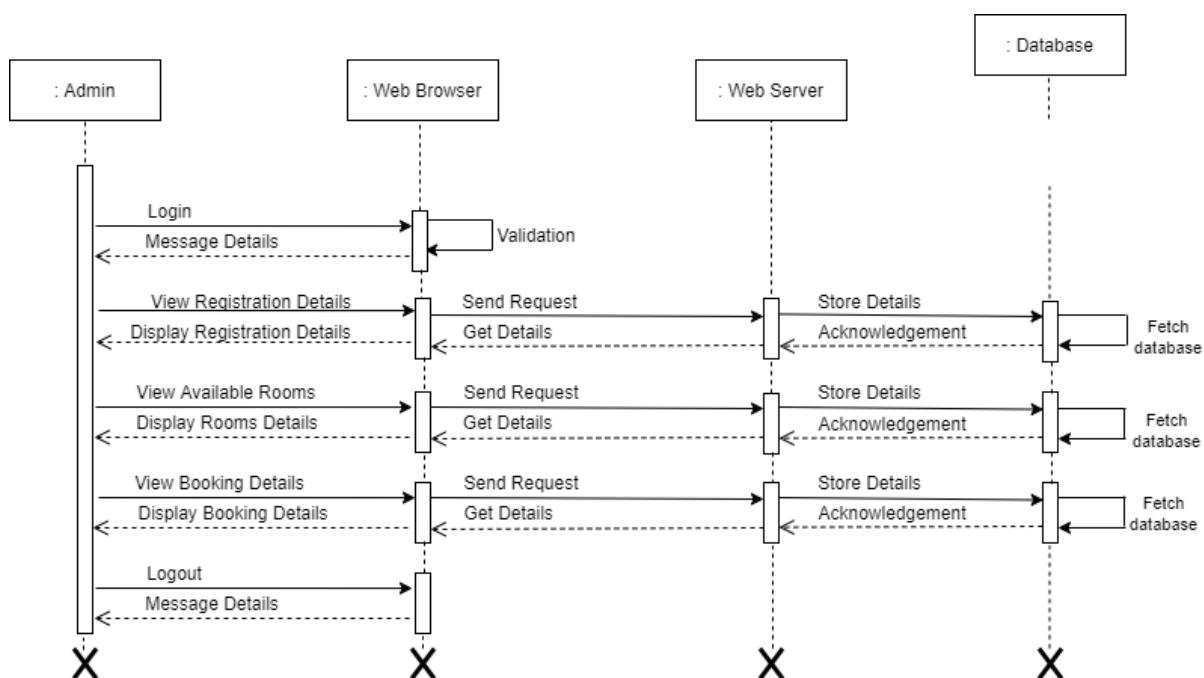


3.6 Sequence Diagram:

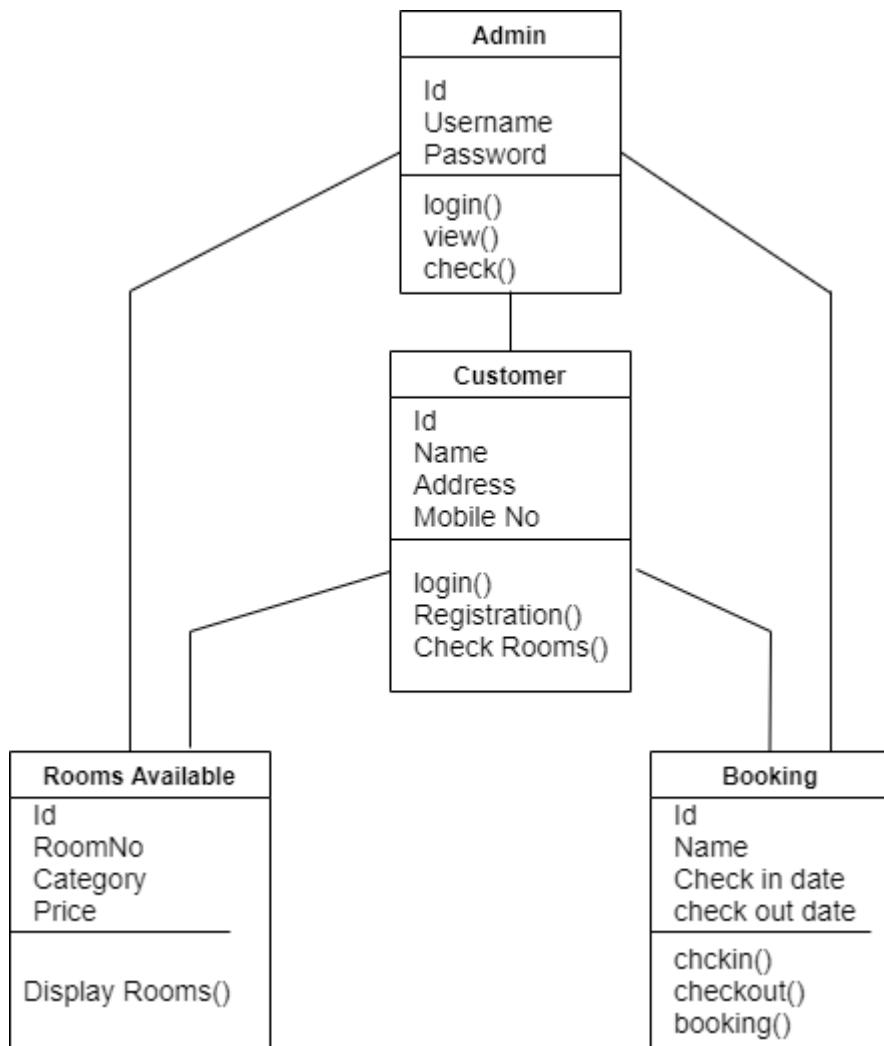
(i) Sequence for Customer:



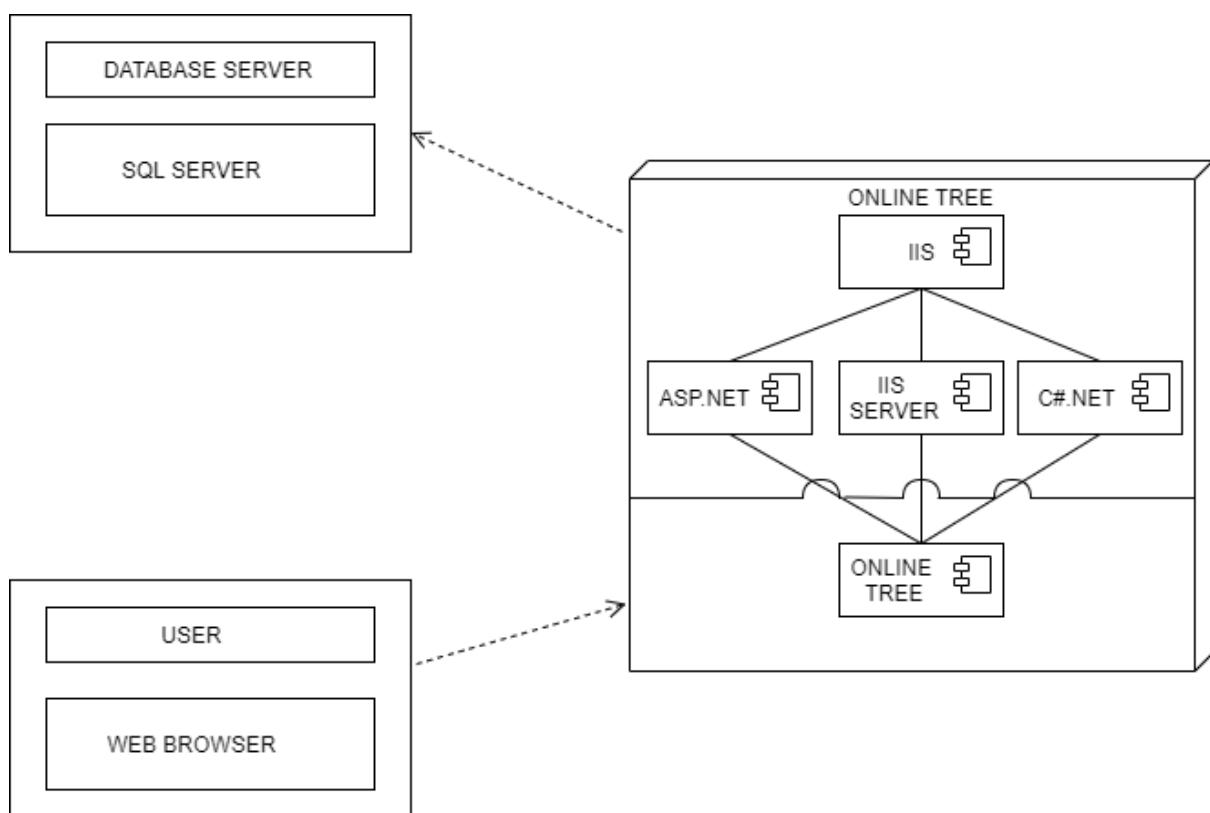
(ii) Sequence for Admin:



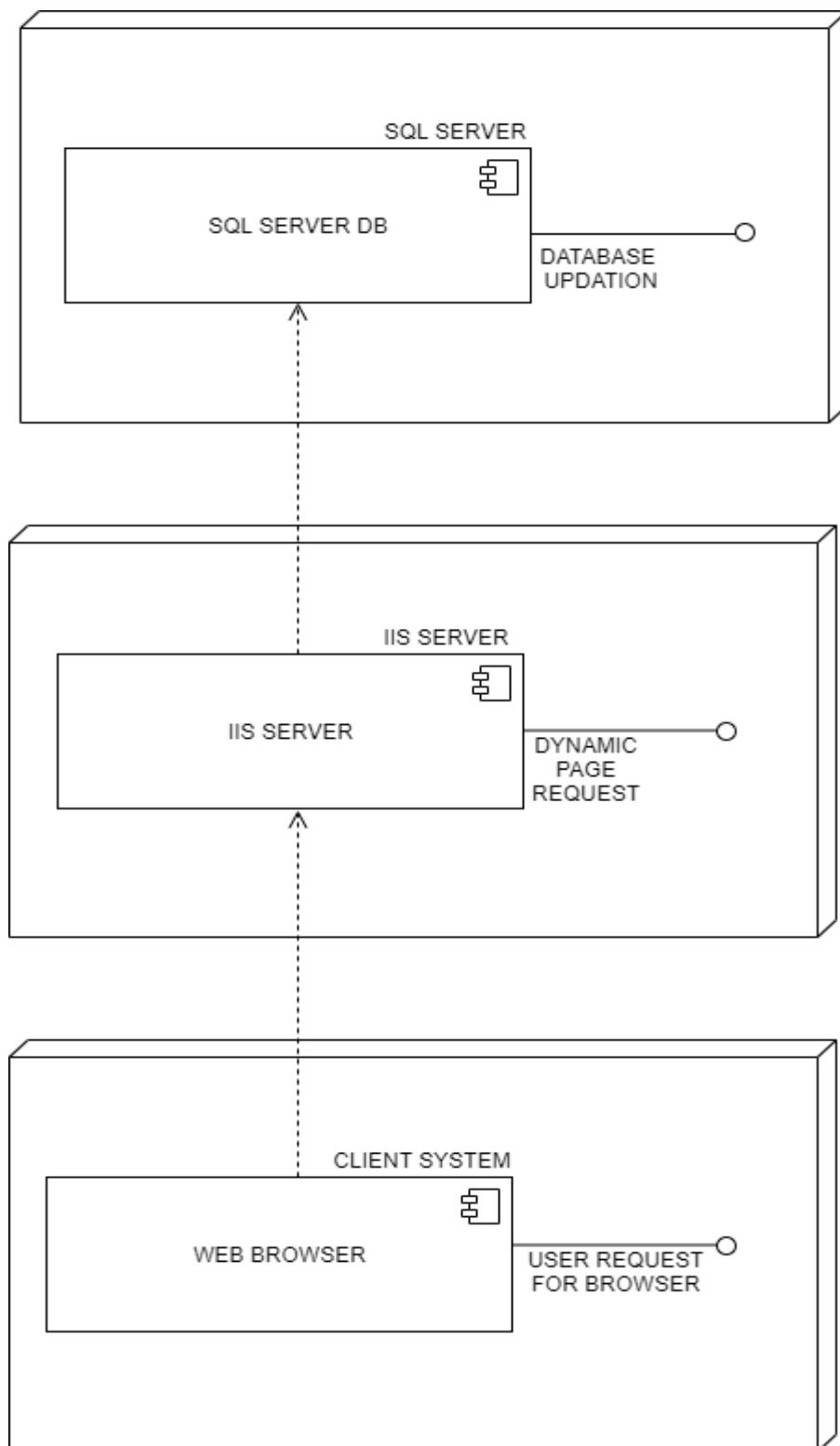
3.7 Class Diagram:



3.8 Component Diagram:



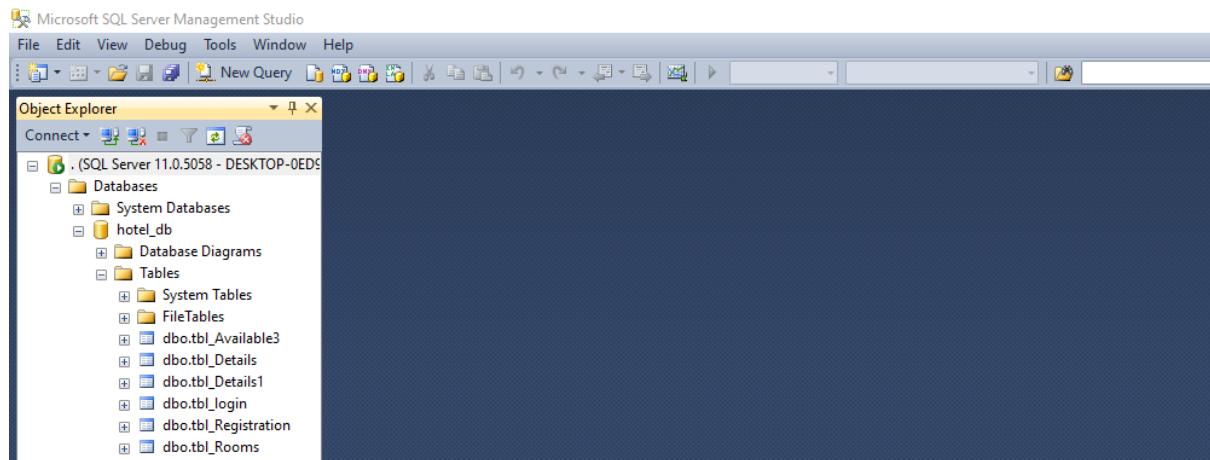
3.8 Deployment Diagram:



DATABASE DESIGN

Database Table Structure

Dashboard :



Registration Table :

Column Name	Data Type	Allow Nulls
Id	int	<input type="checkbox"/>
first_name	varchar(50)	<input checked="" type="checkbox"/>
last_name	varchar(50)	<input checked="" type="checkbox"/>
contact_no	varchar(50)	<input checked="" type="checkbox"/>
address	varchar(50)	<input checked="" type="checkbox"/>
		<input type="checkbox"/>

Login Table :

	Column Name	Data Type	Allow Nulls
▶	Id	int	<input type="checkbox"/>
	username	varchar(50)	<input type="checkbox"/>
	password	varchar(50)	<input type="checkbox"/>
			<input type="checkbox"/>

Rooms Table :

	Column Name	Data Type	Allow Nulls
▶	Id	int	<input type="checkbox"/>
	Image	varchar(150)	<input checked="" type="checkbox"/>
	room_no	int	<input checked="" type="checkbox"/>
	category	varchar(50)	<input checked="" type="checkbox"/>
	floor_no	varchar(50)	<input checked="" type="checkbox"/>
	price_per_day	float	<input checked="" type="checkbox"/>
	status	varchar(50)	<input checked="" type="checkbox"/>

Available Table :

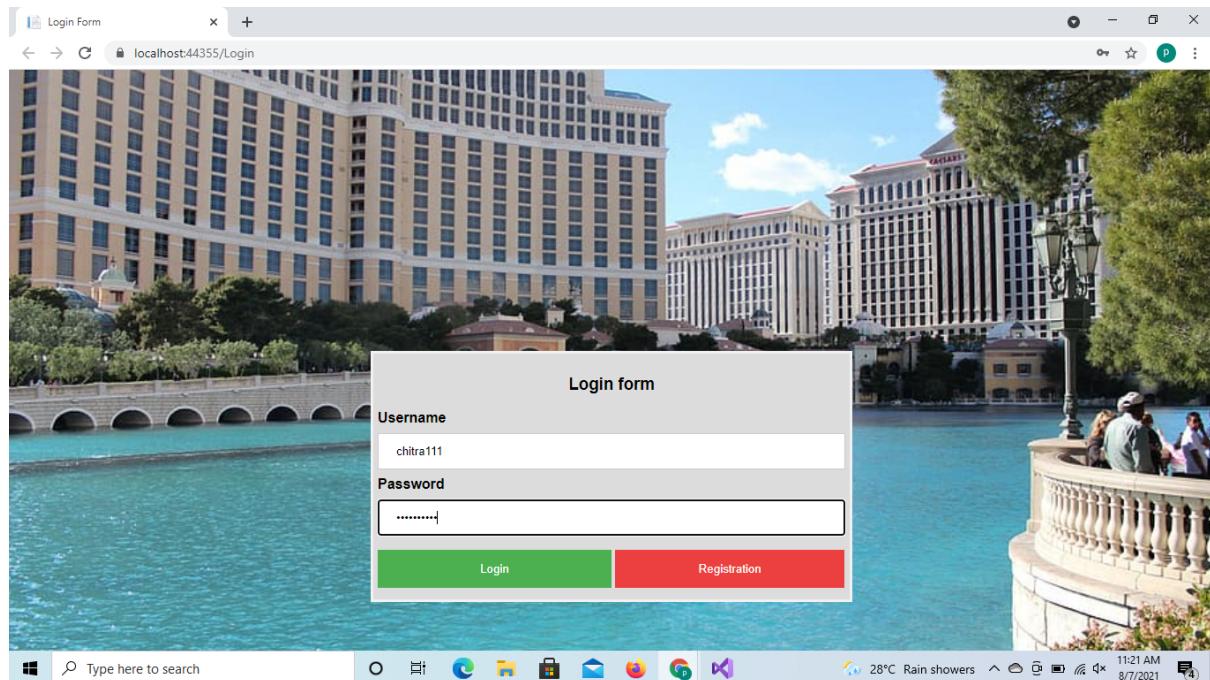
	Column Name	Data Type	Allow Nulls
▶	Id	int	<input type="checkbox"/>
	Check_In_Date	varchar(50)	<input checked="" type="checkbox"/>
	Check_Out_Date	varchar(50)	<input checked="" type="checkbox"/>
	Adults	int	<input checked="" type="checkbox"/>
▶	Children	int	<input checked="" type="checkbox"/> <input type="checkbox"/>

Customer Details Table :

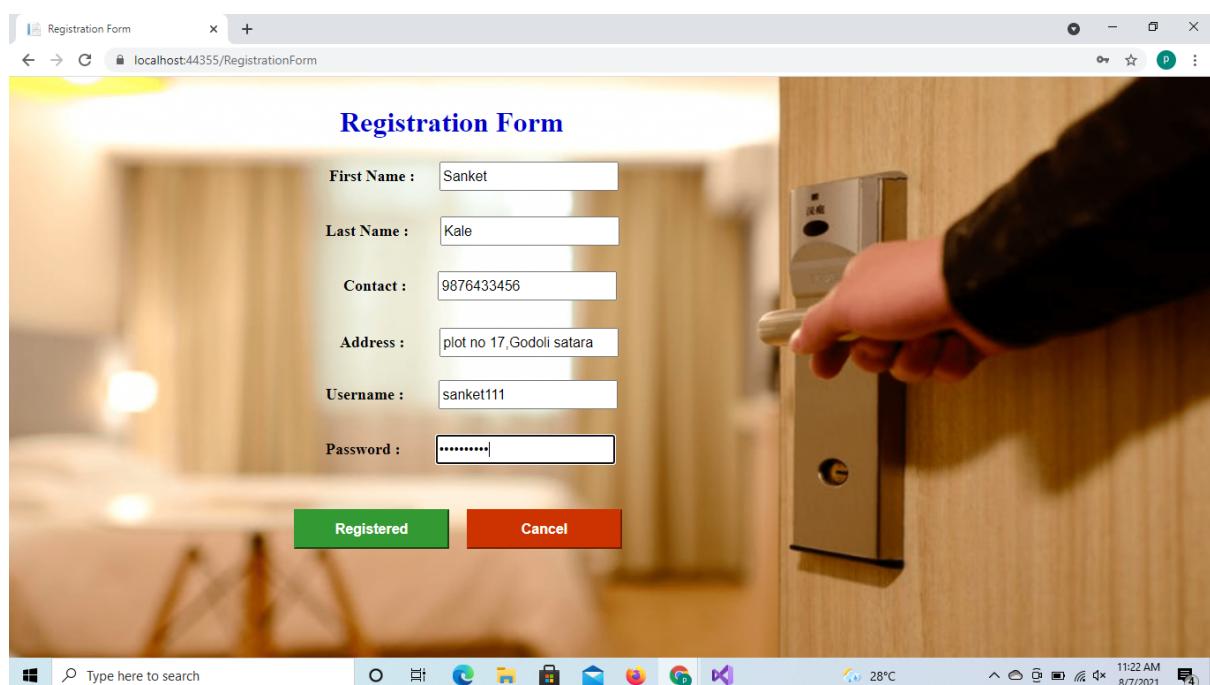
Column Name	Data Type	Allow Nulls
Id	int	<input type="checkbox"/>
first_name	varchar(50)	<input checked="" type="checkbox"/>
middle_name	varchar(50)	<input checked="" type="checkbox"/>
last_name	varchar(50)	<input checked="" type="checkbox"/>
address	varchar(50)	<input checked="" type="checkbox"/>
phone_no	varchar(50)	<input checked="" type="checkbox"/>
country	varchar(50)	<input checked="" type="checkbox"/>
id_proof	varchar(50)	<input checked="" type="checkbox"/>
id_proof_no	varchar(50)	<input checked="" type="checkbox"/>
check_in_date	varchar(50)	<input checked="" type="checkbox"/>
check_out_date	varchar(50)	<input checked="" type="checkbox"/>
adults	int	<input checked="" type="checkbox"/>
children	int	<input checked="" type="checkbox"/>
no_of_day	int	<input checked="" type="checkbox"/>
amount_per_day	float	<input checked="" type="checkbox"/>
total_amount	float	<input checked="" type="checkbox"/>
room_no	int	<input checked="" type="checkbox"/>
category	varchar(50)	<input checked="" type="checkbox"/>

GUI DESIGN

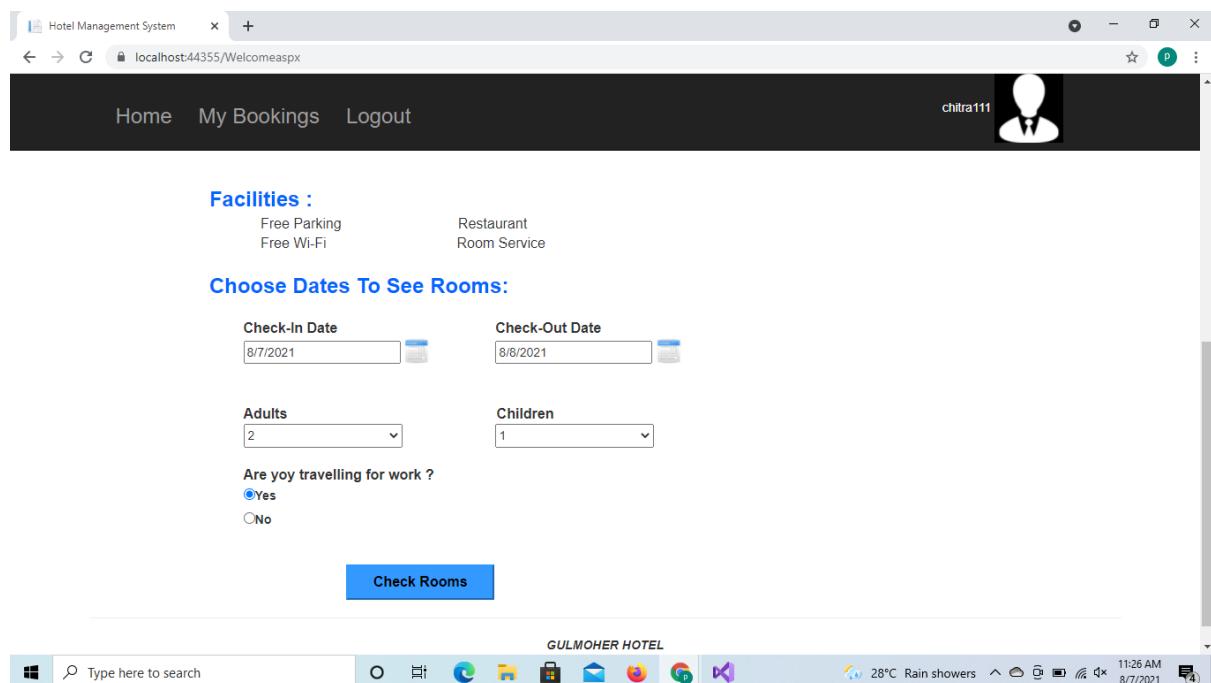
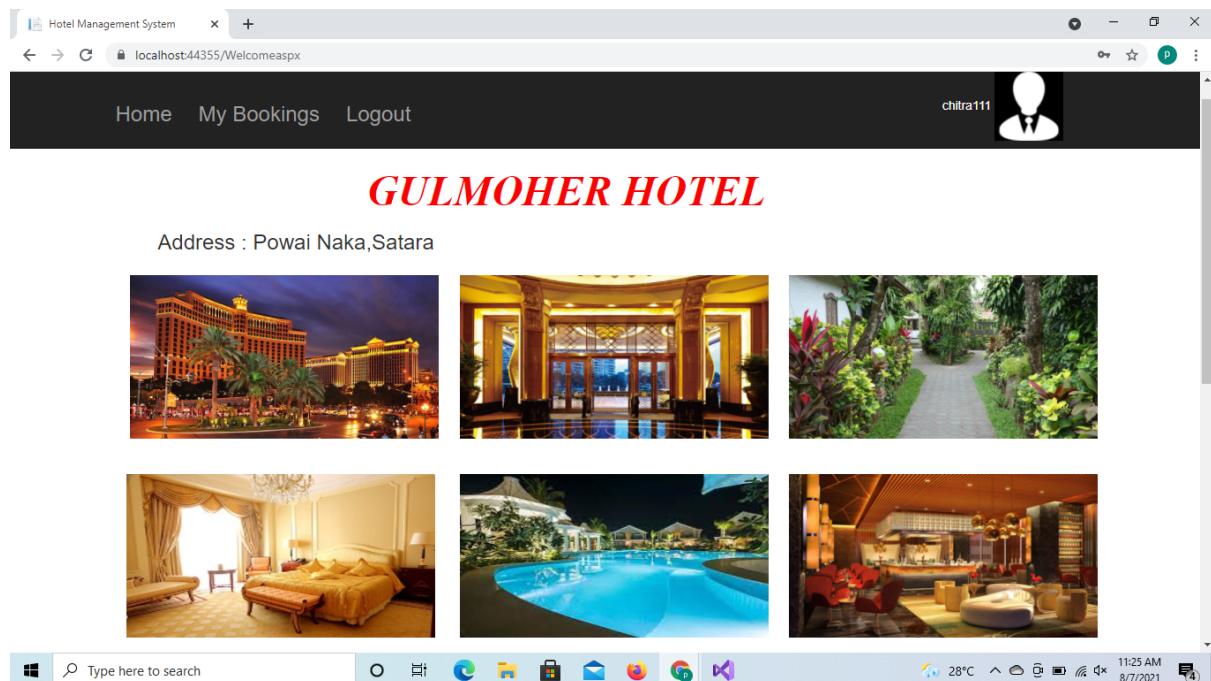
Login Page



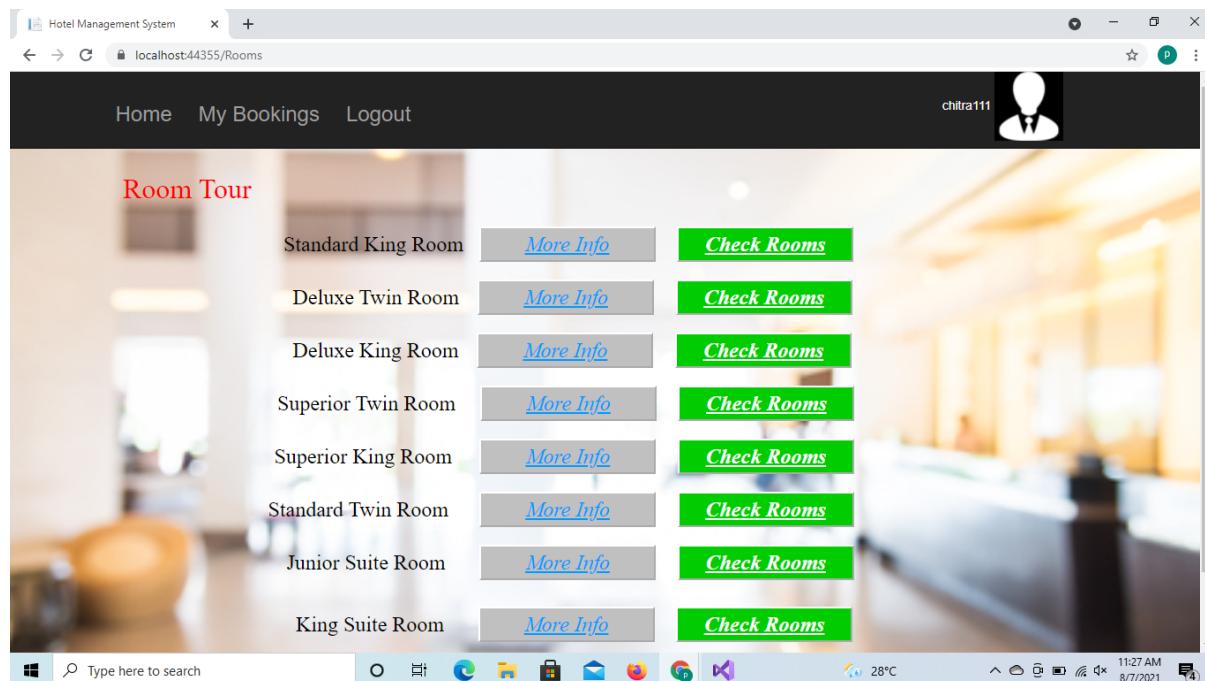
Registration Form :



Room availability checking page :



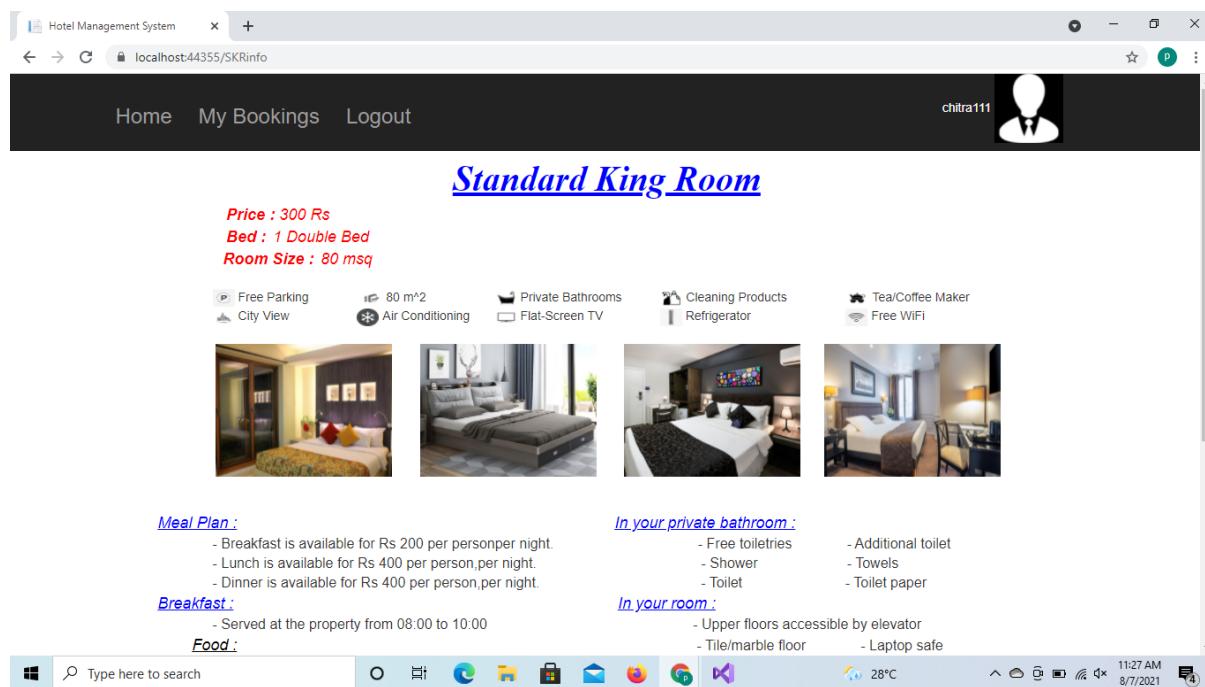
Rooms Details :



The screenshot shows a web browser window for the "Hotel Management System" at localhost:44355/Rooms. The page title is "Room Tour". The interface includes a navigation bar with "Home", "My Bookings", and "Logout" links, and a user profile icon for "chitra111". Below the title, there is a blurred background image of a hotel room. A table lists eight room types with "More Info" and "Check Rooms" buttons:

Standard King Room	More Info	Check Rooms
Deluxe Twin Room	More Info	Check Rooms
Deluxe King Room	More Info	Check Rooms
Superior Twin Room	More Info	Check Rooms
Superior King Room	More Info	Check Rooms
Standard Twin Room	More Info	Check Rooms
Junior Suite Room	More Info	Check Rooms
King Suite Room	More Info	Check Rooms

The browser status bar shows "Type here to search", system icons, and the date/time "11:27 AM 8/7/2021".



The screenshot shows a web browser window for the "Hotel Management System" at localhost:44355/SKRinfo. The page title is "Standard King Room". The interface includes a navigation bar with "Home", "My Bookings", and "Logout" links, and a user profile icon for "chitra111". The main content displays the room type name in large blue text. Below it, room details are listed in red:

Price : 300 Rs
Bed : 1 Double Bed
Room Size : 80 msq

Room features are listed with icons:

- Free Parking
- City View
- 80 m²
- Air Conditioning
- Private Bathrooms
- Flat-Screen TV
- Cleaning Products
- Refrigerator
- Tea/Coffee Maker
- Free WiFi

Four images of the Standard King Room are shown below the feature list.

Section titles include "Meal Plan:", "Breakfast:", "Food:", "In your private bathroom:", and "In your room:". Each section contains a bulleted list of amenities.

The browser status bar shows "Type here to search", system icons, and the date/time "11:27 AM 8/7/2021".

The screenshot shows a web-based hotel booking interface. At the top, there's a navigation bar with links for 'Home', 'My Bookings', and 'Logout'. A user profile icon labeled 'chitra111' is also present. Below the navigation is a table listing three Deluxe Twin Room options:

Image	Room No	Category	Floor No	Price Per Day	Status	BOOK
	102	Deluxe Twin Room	First Floor	400	Available	<button style="border: none; padding: 0;">BOOK</button>
	202	Deluxe Twin Room	Second Floor	400	Available	<button style="border: none; padding: 0;">BOOK</button>
	302	Deluxe Twin Room	Third Floor	400	Available	<button style="border: none; padding: 0;">BOOK</button>

At the bottom of the page, there's a search bar and a taskbar with various icons.

Book Room :

The screenshot shows the 'FinalBooking' page for room 102. It displays the following booking information:

Check-In Date : <input type="text" value="8/7/2021"/>	Check-Out Date : <input type="text" value="8/8/2021"/>	Number Of Days : <input type="text" value="2"/>
No of Children : <input type="text" value="1"/>	Number Of Adults : <input type="text" value="2"/>	Room price per day : <input type="text" value="400"/>
Room Number : <input type="text" value="102"/>	Room Category : <input type="text" value="Deluxe Twin Room"/>	Total Price due at stay : <input type="text" value="800"/>

Enter Your Personal Details :-

Form fields for personal details:

- First Name :
- Middle Name :
- Last Name :
- ID Proof Name :
- ID Proof No :

Guest selection:

I'm the main guest.
 I'm booking for someone else.

Who are you booking for ?

State :

At the bottom, there's a search bar and a taskbar with various icons.

Cancel Booking :

Hotel Management System

localhost:44355/History

Home My Bookings Logout chitra111

Current Booking

Room No	Category	Check In Date	Check Out Date	Adults	Children	Total Amount
102	Deluxe Twin Room	8/7/2021	8/8/2021	2	1	800

Cancel Your Booking

GULMOHER HOTEL

Type here to search

28°C 11:30 AM 8/7/2021

Admin Home Page:

Hotel Management System

localhost:44355/Home

Home Registration History Available Room History Booking Details Logout

GULMOHER HOTEL

Type here to search

28°C 11:32 AM 8/7/2021

Registration Details page :

The screenshot shows a web browser window for the "Hotel Management System" at localhost:44355/RegisHistory. The page title is "Registration Details Of Customer". Below the title is a table with four columns: First Name, Last Name, Mobile Number, and Address. The data in the table is:

First Name	Last Name	Mobile Number	Address
Arti	Kale	7456256354	satara
chitra	sapkal	8765432345	satara

In the background, there is a blurred image of a hotel lobby with people walking. The text "GULMOHER HOTEL" is visible in the center of the lobby image.

Available Room Details :

The screenshot shows a web browser window for the "Hotel Management System" at localhost:44355/Available. The page title is "Available Room Details". Below the title is a table with four columns: Room Number, Category, Floor Number, and Price Per Day. The data in the table is:

Room Number	Category	Floor Number	Price Per Day
102	Deluxe Twin Room	First Floor	400
402	Deluxe Twin Room	Fourth Floor	400
103	Deluxe King Room	First Floor	500
104	Superior Twin Room	First Floor	600
204	Superior Twin Room	Second Floor	600
304	Superior Twin Room	Third Floor	600
404	Superior Twin Room	Fourth Floor	600
105	Superior King Room	First Floor	700
205	Superior King Room	Second Floor	700

In the background, there is a blurred image of a hotel lobby with people walking.

Booking Details :

The screenshot shows a web browser window titled "Hotel Management System" with the URL "localhost:44355/Booking". The page displays "Booking Details" for two bookings. The table has the following data:

First Name	Middle Name	Last Name	Address	Mobile Number	Id Proof Number	Room Number	Category Name	Check In Date	Check Out Date	No Of Days	Total Amount
chitra	chandrakant	sapkal	pune	9764453434	9876 5345 7865	203	Deluxe King Room	8/5/2021	8/5/2021	1	700.12
ruchira	anil	chavan	address	9871726353	8653 6537 8483	101	Standard King Room	8/5/2021	8/5/2021	1	300

The background of the page features a blurred image of a hotel room interior. The taskbar at the bottom shows various application icons and system status.

FUTURE SCOPE AND ENHANCEMENT

In future we add two new modules one is receptionist for handling customers.and second is manager for handling hotel details as well as workers details easily.